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GROUNDWATER MONITORING
VALIDATED ANALYTICAL RESULTS FOR THE FOURTH QUARTER 1994
OB/OD GROUNDS, SENECA ARMY DEPOT

PREPARED FOR:

U.S. Army Corps of Engineers
Huntsville, Alabama

PREPARED BY:

Parsons Engineering Science, Inc.
Boston, Massachusetts

January 1995
D#12

PARSONS ENGINEERING SCIENCE, INC.

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January 24, 1995
725980-01003

Mr. Randall Battaglia
ATTN: SDSSE-HE
Seneca Army Depot
Romulus, New York, 14541-5001

SUBJECT: Fourth Quarter Groundwater Monitoring for 1994, OB/OD Grounds, Seneca Army Depot Activity, Romulus, New York

Dear Mr. Battaglia:

Enclosed are the analytical results for the fourth quarter 1994 groundwater monitoring for selected monitoring wells at the Open Burning (OB) and Open Detonation (OD) grounds at the Seneca Army Depot (SEDA). The analytical results are divided into two major groups: indicator parameters and QA/QC data (Sections 1 and 2 in the attached document). This is the third quarter of groundwater monitoring that has been performed under the new Scope of Work (SOW) issued as Annex AC, Delivery Order 0029, to the current Parsons Engineering Science, Inc. (Parsons ES) Contract DACA87-92-D-0022.

This quarter reflects the modifications to the groundwater monitoring program, proposed by Parsons ES in 1993, and approved by the New York State Department of Environmental Conservation (NYSDEC) on December 6, 1993. The proposed changes were based upon the requirements of 6 NYCRR Part 373 which pertain to groundwater monitoring at units operating under interim status and included installation of eight (8) new wells, four (4) at the OB grounds and four (4) at the OD grounds. Under this plan, indicator parameters (pH, specific conductance, Total Organic Carbon (TOC) and Total Organic Halogens (TOX), sampled semi-annually, are statistically compared using the Student's t-Test between the downgradient and upgradient concentrations to identify whether a release at a unit has occurred.

The Students t-Test statistical analysis was performed in accordance with EPA Solid Waste guidelines outlined in "Groundwater Monitoring Guidance for Owners and Operators of Interim Status Facilities" pages 75 thru 81. The results of the analysis concluded that there has been a statistically significant increase in the specific conductance in the one upgradient and three downgradient wells at the OB Grounds and in downgradient well MW45-3 at the OD Grounds. These data continue to show that potential releases may have occurred between the background and downgradient wells at both the OB and OD Grounds. These potential releases were first identified during the second quarter 1994 groundwater sampling event and confirmed with groundwater samples that were obtained in September 1994. The results of the confirmatory sampling and the actions required by New York State regulations were described in a Parsons ES letter to you dated November 3, 1994.

In accordance with 6 NYCRR Part 373-3.7(d)(3)(ii), we suggest that you authorize us to sample groundwater from the following wells: MW-12, MW-13, MW-14, MW-27, and MW45-3 and analyze these samples for specific conductance to eliminate the possibility of laboratory error.

GROUNDWATER ELEVATION DATA
OB/OD GROUNDS

DATE	MONITORING WELL	GROUNDWATER ELEVATION (FT)
First Quarter		
01-Mar-94	MW-1	626.55
02-Mar-94	MW-2	NA
01-Mar-94	MW-3	NA
01-Mar-94	MW-4	NA
02-Mar-94	MW-5	Frozen
02-Mar-94	MW-6	Frozen
28-Feb-94	MW-7	619.5
02-Mar-94	MW-8	Frozen
02-Mar-94	MW-9	Frozen
02-Mar-94	MW-10	Frozen
02-Mar-94	MW-11	Frozen
02-Mar-94	MW-12	Frozen
02-Mar-94	MW-13	Frozen
02-Mar-94	MW-14	Frozen
03-Mar-94	MW-15	Frozen
28-Feb-94	MW-16	620.23
02-Mar-94	MW-17	Frozen
02-Mar-94	MW-18	Frozen
02-Mar-94	MW-19	Frozen
02-Mar-94	MW-21	Frozen
02-Mar-94	MW-22	Frozen
03-Mar-94	MW-23	619.48
03-Mar-94	MW-24	623.49
03-Mar-94	MW-25	619.07
03-Mar-94	MW-26	619.47
02-Mar-94	MW-27	622.62
01-Mar-94	MW-28	628.01
01-Mar-94	MW-29	627.97
02-Mar-94	MW-30	624.38
08-Mar-94	MW-31	Frozen
02-Mar-94	MW-32	Frozen
02-Mar-94	MW-34	Frozen
02-Mar-94	MW-35	Frozen
Second Quarter		
29-Jun-94	MW-12	622.22
29-Jun-94	MW-13	624.88
29-Jun-94	MW-14	621.45
29-Jun-94	MW-27	622.6
29-Jun-94	MW45-1	<617.1 (Dry Well)
29-Jun-94	MW45-2	616.44
29-Jun-94	MW45-3	618.47
29-Jun-94	MW45-4	626.1
Third Quarter		
29-Sep-94	MW-12	618.84
29-Sep-94	MW-13	620.76
30-Sep-94	MW-14	617.65
30-Sep-94	MW-27	618.88
30-Sep-94	MW45-1	617.03
30-Sep-94	MW45-2	615.31
30-Sep-94	MW45-3	615.19
30-Sep-94	MW45-4	623.74
Fourth Quarter		
06-Dec-94	MW-12	622.34
06-Dec-94	MW-13	624.79
06-Dec-94	MW-14	621.45
06-Dec-94	MW-27	622.78
06-Dec-94	MW45-1	616.55
06-Dec-94	MW45-2	<614.34 (Dry Well)
06-Dec-94	MW45-3	615.89
06-Dec-94	MW45-4	626.79

NOTES:

NA = Top of casing elevation was not available.

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Section 1.0
Indicator Parameters

1.1
Indicator Parameters Results

OB GROUNDS FOURTH QUARTER 1994 MONITORING
INDICATOR ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	SITE	OB	OB	OB	OB	OB	OB	OB
	DATE SAMPLED	12/6/94	12/6/94	12/6/94	12/6/94	12/6/94	12/6/94	12/6/94
	ES ID	MW-12A	MW-12B	MW-12C	MW-12D	MW-13A	MW-13B	MW-13C
	LAB ID	243640	243641	243642	243643	243644	243645	243646
PARAMETER	UNITS							
pH	units	7.35	7.37	7.40	7.36	7.04	7.03	7.05
Conductivity	umhos/cm	907	915	907	915	888	861	896
Total Organic Carbon	mg/L	1.2	1.2	1.3	1.2	1.2	1.2	1.2
Total Organic Halides	mg/L	0.09	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

NOTE:
No groundwater samples were obtained from wells MW45-1 and MW45-2 because the wells were dry.

OB GROUNDS FOURTH QUARTER 1994 MONITORING
INDICATOR ANALYSIS RESULTS

PARAMETER	MATRIX / SITE / DATE SAMPLED / ES ID / LAB ID	UNITS	WATER OB 12/6/94 MW-13D 243647	WATER OB 12/6/94 MW-14A 243648	WATER OB 12/6/94 MW-14B 243649	WATER OB 12/6/94 MW-14C 243650	WATER OB 12/6/94 MW-14D 243651	WATER OB 12/6/94 MW-27A 243653	WATER OB 12/6/94 MW-27B 243654
pH		units	7.02	7.11	7.11	7.11	7.11	7.34	7.34
Conductivity		umhos/cm	897	1090	1090	1090	1060	950	954
Total Organic Carbon		mg/L	1.3	1.1	1	1.0	1	1	1
Total Organic Halides		mg/L	0.07	0.02 U	0.02 U	0.02 U	0.02 U	0.04	0.03

OB GROUNDS FOURTH QUARTER 1994 MONITORING
INDICATOR ANALYSIS RESULTS

PARAMETER	MATRIX / SITE / DATE SAMPLED / ES ID / LAB ID	UNITS	WATER OB 12/6/94 MW-27C 243655	WATER OB 12/6/94 MW-27D 243656	WATER OD 12/6 & 7/94 MW-453A 243657	WATER OD 12/6 & 7/94 MW-453B 243658	WATER OD 12/6 & 7/94 MW-453C 243659	WATER OD 12/6 & 7/94 MW-453D 243670	WATER OD 12/6/94 MW-454A 243672
pH		units	7.36	7.32	7.19	7.2	7.18	7.19	7.06
Conductivity		umhos/cm	954	954	1460	1310	1500	1450	1050
Total Organic Carbon		mg/L	1	1	0.8	0.8	0.8	0.8	1
Total Organic Halides		mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

OB GROUNDS FOURTH QUARTER 1994 MONITORING
INDICATOR ANALYSIS RESULTS

PARAMETER	MATRIX / SITE / DATE SAMPLED / ES ID / LAB ID / UNITS					
	MATRIX	WATER	WATER	WATER	WATER	WATER
	SITE	OD	OD	OD	OB	OD
	DATE SAMPLED	12/6/94	12/6/94	12/6/94	12/6/94	12/6/94
	ES ID	MW-454B	MW-454C	MW-454D	MW-14R	MW-453R
	LAB ID	243673	243674	243675	243652	243671
	UNITS				(MW-14 Rinsate)	(MW-453 Rinsate)
pH	units	7.13	7.10	7.09	6.46	6.45
Conductivity	umhos/cm	1020	1020	1030	5.1	5.3
Total Organic Carbon	mg/L	1	1	1	0.5 U	0.5 U
Total Organic Halides	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

1.2
Statistical Analysis

Students t – Test for wells in the OB area
TOC – Year 1994, 4th quarter

Background Well MW –5	TOC	pH	Specific Cond.	TOX
Intital Mean =	30.0	7.575	689.7	0.0528
Initial Variance =	302.3	0.034	2869.5	0.0009307
Sample Size =	16	16	16	5

TOTAL ORGANIC CARBON (TOC)

Compliance Well MW –12		Background Well MW –13		Compliance Well MW –14		Compliance Well MW –27	
t*=	–6.62	t*=	–6.62	t*=	–6.67	t*=	–6.67
tc=	2.60	tc=	2.60	tc=	2.60	tc=	2.60
	No Change		**No Change**		**No Change**		**No Change**

pH

Compliance Well MW –12		Background Well MW –13		Compliance Well MW –14		Compliance Well MW –27	
t*=	–4.33	t*=	–11.60	t*=	–10.09	t*=	–5.02
tc=	3.10	tc=	2.96	tc=	2.95	tc=	3.04
	No Change		**No Change**		**No Change**		**No Change**

SPECIFIC CONDUCTANCE

Compliance Well MW –12		Background Well MW –13		Compliance Well MW –14		Compliance Well MW –27	
t*=	16.87	t*=	12.70	t*=	26.30	t*=	20.33
tc=	2.66	tc=	3.18	tc=	3.09	tc=	2.61
	Increase		**Increase**		**Increase**		**Increase**

TOTAL ORGANIC HALIDES (TOX)

Compliance Well MW –12		Background Well MW –13		Compliance Well MW –14		Compliance Well MW –27	
t*=	–1.05	t*=	–1.49	t*=	–3.50	t*=	–2.01
tc=	4.31	tc=	4.21	tc=	3.75	tc=	3.98
	No Change		**No Change**		**No Change**		**No Change**

key:
t*>= tc Most likely an increase in the indicator parameter
t*<tc Most likely no change in the indicator parameter

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Well in the OB area
Background Upgradient Concentrations

Backgroundwell MW-5					
pH		jan-82	apr-82	jun-82	sep-82
		7.3	7.6	7.8	7.6
		7.3	7.6	7.8	7.6
		7.3	7.6	7.8	7.6
		7.3	7.6	7.8	7.6
Average	7.58	Variance	0.034		
Spec Cond		jan-82	apr-82	jun-82	sep-82
		730	719	620	795
		730	718	620	790
		730	719	620	795
		730	720	620	795
Average	689.67	Variance	2669.52		
TOC		jan-82	apr-82	jun-82	sep-82
		1	39	43	37
		1	39	42	38
		1	40	42	37
		1	39	42	38
Average	30.00	Variance	302.27		
TOX		jan-82	apr-82	jun-82	sep-82
		–	–	–	0.041
		–	–	0.064	–
		–	–	0.098	–
		0.016	–	0.045	–
Average	0.0528	Variance	0.0009307		

Students t – Test for wells in the OD area
TOC – Year 1994, 4th quarter

Background Well MW – 4				
	TOC	pH	Spec Cond.	TOX
Intital Mean =	28.3125	7.525	1007.8	0.021
Initial Variance =	379.3	0.114	98398.6	0.00056473
Sample Size =	16	16	12	12

TOTAL ORGANIC CARBON (TOC)					
Background Well MW –452	Compliance Well MW –453		Compliance Well MW –454		
t*=	t*=	–5.65	t*=	–5.61	
tc=	tc=	2.60	tc=	2.60	
		No Change		**No Change**	
pH					
Background Well MW –452	Compliance Well MW –453		Compliance Well MW –454		
t*=	t*=	–3.96	t*=	–5.02	
tc=	tc=	2.95	tc=	3.03	
		No Change		**No Change**	
SPECIFIC CONDUCTANCE					
Background Well MW –452	Compliance Well MW –453		Compliance Well MW –454		
t*=	t*=	4.24	t*=	0.24	
tc=	tc=	3.03	tc=	2.73	
		Increase		**No Change**	
TOTAL ORGANIC HALIDES (TOX)					
Background Well MW –452	Compliance Well MW –453		Compliance Well MW –454		
t*=	t*=	–2.33	t*=	–2.33	
tc=	tc=	2.72	tc=	2.72	
		No Change		**No Change**	

key:
t*>= tc Most likely an increase in the indicator parameter
t*<tc Most likely no change in the indicator parameter

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Well in the OD area
Background Upgradient Concentrations

Backgroundwell MW-1					
pH		jan-82	apr-82	jun-82	sep-82
		7.2	7.2	7.8	7.9
		7.2	7.2	7.8	7.9
		7.2	7.2	7.8	7.9
		7.2	7.2	7.8	7.9
Average	7.53	Variance	0.114		
Spec Cond		jan-82	apr-82	jun-82	sep-82
		1130	1300	590	–
		1120	1302	590	–
		1130	1301	600	–
		1130	1300	600	–
Average	1007.75	Variance	98398.57		
TOC		jan-82	apr-82	jun-82	sep-82
		1	54	30	28
		1	54	30	29
		1	54	30	27
		1	55	30	28
Average	28.31	Variance	379.30		
TOX		jan-82	apr-82	jun-82	sep-82
		0.06	0.005	0.005	–
		0.05	0.005	0.005	–
		0.05	0.005	0.005	–
		0.052	0.005	0.005	–
Average	0.021	Variance	0.000565		

Section 2.0
QA/QC Data

2.1 Laboratory Control Samples and Duplicates for Indicator Parameters

2.2 Indicator Parameter Data

2.1 Laboratory Control Samples and Duplicates for Indicator Parameters

Quality Control Summary

Project No.: 93206 EIR No.: 48356 SDG No.: 48356

Parameter	Method Preparation Blank Units: mg/L	Laboratory Control Sample Units: mg/L Found Value	Laboratory Control Sample Units: mg/L True Value	Laboratory Control Sample % Recovery
Total Organic Carbon	<0.5	9.82	9.96	98.6
TOX	<0.02	10.57	10.00	105.7

Quality Control Summary

Project No.: 93206 EIR No.: 48358 SDG No.: 48358

Parameter	Method Preparation Blank Units: mg/L	Laboratory Control Sample Units: mg/L Found Value	Laboratory Control Sample Units: mg/L True Value	Laboratory Control Sample % Recovery
Total Organic Carbon	<0.5	9.71	9.96	97.5
TOX	<0.02	9.98	10.00	99.8

2.2 Indicator Parameter Data

Inchcape Testing Services
Aquatec Laboratories

Laboratory Locations
55 South Park Drive
Colchester, VT 05446

75 Green Mountain Drive
South Burlington, VT 05403

150 Herman Melville Boulevard
New Bedford, MA 02740

Analytical Report

Engineering Science
Prudential Center
Boston, MA 02199

Date : 12/19/94
ETR Number : 48356
Project No.: 93206
No. Samples: 20
Arrived : 12/08/94

Attention : Mike Duchesneau

Case:93206 SDG:48356

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater.
All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
243640	MW12A:12/06/94 @1600(Water)	
9040	pH (std. units)	7.35
415.1	Organic Carbon, Total	1.2
450.1	Organic Halides, Total	0.09
120.1	Conductivity (umhos/cm)	907
243641	MW12B:12/06/94 @1600(Water)	
9040	pH (std. units)	7.37
415.1	Organic Carbon, Total	1.2
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	915
243642	MW12C:12/06/94 @1600(Water)	
9040	pH (std. units)	7.40
415.1	Organic Carbon, Total	1.3
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	907
243643	MW12D:12/06/94 @1600(Water)	
9040	pH (std. units)	7.36
415.1	Organic Carbon, Total	1.2
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	915
243644	MW13A:12/06/94 @1440(Water)	
9040	pH (std. units)	7.04
415.1	Organic Carbon, Total	1.2
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	888

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Analytical Report

Engineering Science
Prudential Center
Boston, MA 02199

Date : 12/19/94
ETR Number : 48356
Project No.: 93206
No. Samples: 20
Arrived : 12/08/94

Attention : Mike Duchesneau

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Lab No./ Method No.	Sample Description/ Parameter	Result
243645	MW13B:12/06/94 @1440(Water)	
9040	pH (std. units)	7.03
415.1	Organic Carbon, Total	1.2
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	861
243646	MW13C:12/06/94 @1440(Water)	
9040	pH (std. units)	7.05
415.1	Organic Carbon, Total	1.2
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	896
243647	MW13D:12/06/94 @1440(Water)	
9040	pH (std. units)	7.02
415.1	Organic Carbon, Total	1.3
450.1	Organic Halides, Total	0.07
120.1	Conductivity (umhos/cm)	897
243648	MW14A:12/06/94 @1450(Water)	
9040	pH (std. units)	7.11
415.1	Organic Carbon, Total	1.1
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	1090
243649	MW14B:12/06/94 @1450(Water)	
9040	pH (std. units)	7.11
415.1	Organic Carbon, Total	1.0
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	1090

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Analytical Report

Engineering Science
Prudential Center
Boston, MA 02199

Date : 12/19/94
ETR Number : 48356
Project No.: 93206
No. Samples: 20
Arrived : 12/08/94

Attention : Mike Duchesneau

Case:93206 SDG:48356

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All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
243650	MW14C:12/06/94 @1450(Water)	
9040	pH (std. units)	7.11
415.1	Organic Carbon, Total	1.0
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	1090
243651	MW14D:12/06/94 @1450(Water)	
9040	pH (std. units)	7.11
415.1	Organic Carbon, Total	1.0
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	1060
243652	MW14R:12/06/94 @0845(Water)	
9040	pH (std. units)	6.46
415.1	Organic Carbon, Total	<0.5
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	5.1
243653	MW27A:12/06/94 @1625(Water)	
9040	pH (std. units)	7.34
415.1	Organic Carbon, Total	1.0
450.1	Organic Halides, Total	0.04
120.1	Conductivity (umhos/cm)	950
243654	MW27B:12/06/94 @1625(Water)	
9040	pH (std. units)	7.34
415.1	Organic Carbon, Total	1.0
450.1	Organic Halides, Total	0.03
120.1	Conductivity (umhos/cm)	954

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Analytical Report

Engineering Science
Prudential Center
Boston, MA 02199

Date : 12/19/94
ETR Number : 48356
Project No.: 93206
No. Samples: 20
Arrived : 12/08/94

Attention : Mike Duchesneau

Case:93206 SDG:48356

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
243655	MW27C:12/06/94 @1625(Water)	
9040	pH (std. units)	7.36
415.1	Organic Carbon, Total	1.0
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	954
243656	MW27D:12/06/94 @1625(Water)	
9040	pH (std. units)	7.32
415.1	Organic Carbon, Total	1.0
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	954
243657	MW453A:(Water)	
9040	pH (std. units)	7.19
415.1	Organic Carbon, Total	0.8
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	1460
243658	MW453B:(Water)	
9040	pH (std. units)	7.20
415.1	Organic Carbon, Total	0.8
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	1310
243659	MW453C:(Water)	
9040	pH (std. units)	7.18
415.1	Organic Carbon, Total	0.8
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	1500

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Analytical Report

Engineering Science
Prudential Center
Boston, MA 02199

Date : 12/19/94
ETR Number : 48358
Project No.: 93206
No. Samples: 6
Arrived : 12/08/94

Attention : Mike Duchesneau

Case:93206 SDG:48358

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater.
All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
243670	MW453D:(Water)	
9040	pH (std. units)	7.19
415.1	Organic Carbon, Total	0.8
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	1450
243671	MW453R:12/06/94 @0830(Water)	
9040	pH (std. units)	6.45
415.1	Organic Carbon, Total	<0.5
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	5.3
243672	MW454A:12/06/94 @1300(Water)	
9040	pH (std. units)	7.06
415.1	Organic Carbon, Total	1.0
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	1050
243673	MW454B:12/06/94 @1300(Water)	
9040	pH (std. units)	7.13
415.1	Organic Carbon, Total	1.0
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	1020
243674	MW454C:12/06/94 @1300(Water)	
9040	pH (std. units)	7.10
415.1	Organic Carbon, Total	1.0
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	1020

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Colchester, VT 05446

75 Green Mountain Drive
South Burlington, VT 05403

150 Herman Melville Boulevard
New Bedford, MA 02740

Analytical Report

Engineering Science
Prudential Center
Boston, MA 02199

Date : 12/19/94
ETR Number : 48358
Project No.: 93206
No. Samples: 6
Arrived : 12/08/94

Attention : Mike Duchesneau

Case:93206 SDG:48358

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Lab No./ Method No.	Sample Description/ Parameter	Result
243675	MW454D:12/06/94 @1300(Water)	
9040	pH (std. units)	7.09
415.1	Organic Carbon, Total	1.0
450.1	Organic Halides, Total	<0.02
120.1	Conductivity (umhos/cm)	1030

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